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CLAIMS

1. A cap for a laminated carton packaging for beverages, wherein the laminated carton packaging for beverages comprises a cap (1) made of plastic and a packaging body (P), wherein the cap (1) has a spout element (2) provided with a screw thread (3) and wherein the cap (1) is deep drawn, characterised in that the spout element (2) has a spout opening (4), which can be closed by a screw cap (8).
2. The cap according to claim 1, characterised in that the spout element (2) has a screw thread (3) with at least one thread turn.
3. The cap according to claim 1, characterised in that the spout element (2) has a screw thread (3) with at least one thread turn and that the at least one thread turn comprises several thread sections (3A, 3B, 3A') arranged with a distance to each other and aligned with each other.
4. The cap according to one of the claims 1 to 3, characterised in that

as plastic a deep drawing monomer foil is used.

5. The cap according to one of the claims 1 to 3,
characterised in that
as plastic a deep drawing multilayer foil is used.
6. The cap according to claim 5,
characterised in that
the multilayer foil has oxygen and/or aroma barrier
properties.
7. The cap according to one of the claims 1 to 6,
characterised in that
the cap (1) has an circumferential upward angled
edge (5).
8. The cap according to one of the claims 1 to 6,
characterised in that
the cap (1) has a circumferential downward angled
edge (5').
9. The cap according to one of the claims 1 to 6,
characterised in that
the cap has an circumferential upward angled edge
with a concentric adjacent collar with a slightly
outward pitch and downward tapering periphery.
10. The cap according to one of the claims 1 to 9,
characterised in that
the spout opening (4) is sealed by a film before the

unscrewing of the screw cap.

11. The cap according to one of the claims 1 to 9, characterised in that the screw cap (S) is screwed liquid-tight onto the spout element (2).
12. A tool for the deep drawing of a cap for laminated carton packaging for beverages according to one of the claims 1 to 11 having a deep drawing form with a multitude of suction holes, characterised in that the deep drawing form (6) has a thread feed pipe (9) which can be driven out, which before the deep drawing procedure, preferably via a spindle drive (M), is moved out of the tool body into a working position and after the deep drawing procedure is unscrewed out of the rigid plastic cap.
13. The tool for deep drawing of a cap for laminated carton packaging for beverages according to one of the claims 1 to 11 with a deep drawing form having a multitude of suction holes, characterised in that the deep drawing form (6') having a tube (7) arranged with recesses (8) formed as screw threads and that under the tube (7) a spreading tool (9') is arranged with a multitude, corresponding to the division of the spreading tool (9'), of elevations (10'A, 10'B, 10'A, 10'B) executed as a thread turn, which in coincided driven condition drive into the tube (7) and there during the deep drawing procedure is spread out, so that the elevations (10'A', 10'B,

10'A', 10'B') of the spreading tool (9') through the recesses (8) of the tube (7) are moved to the outside.

14. The tool according to claim 13, characterised in that the tube (7) and the spreading tool (9') have a slightly conical form.
15. The tool according to claim 13 or 14, characterised in that the spreading tool (9') comprises three spreading elements (9A, 9B, 9C).
16. The tool according to one of the claims 12 to 15, characterised in that knives (13) are arranged in the tool of the deep-drawing form (6, 6') for punching out the cap (1) and/or the spout opening (4) of the cap (1).
17. The method for manufacturing a cap for laminated carton packaging for beverages, wherein the laminated carton packaging for beverages comprise a plastic cap and a packaging body, characterised by the following steps:
 - supplying a plasticized foil over a deep drawing form having a thread feed pipe projecting out of the tool body,
 - deep drawing of the foil;

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- releasing of the deep drawn cap after the unscrewing of the thread feed pipe from the cap by means of screwing into the tool body and
 - punching out the cap and spout opening.
18. A method of manufacturing a cap for a laminated carton packaging for beverages, wherein the laminated carton packaging for beverages comprise a cap made of plastic and a packaging body, characterised by the following steps:
- supplying a plasticized foil over a deep drawing form having a tube and a spreading tool,
 - spreading out of the spreading tool,
 - deep drawing of the foil over the thread turns of the spread out spreading tool;
 - releasing of the deep drawn cap after coincided driving of the thread turns forming spreading tool and
 - punching out the cap and spout opening.
19. The method according to claim 17 or 18, characterised in that the supplying of the plasticized foil over the deep drawing form and the spreading out of the spreading tools in the inside of the tube occur

simultaneously.

20. The method according to claim 17 or 18, characterised in that the releasing of the deep drawn cap and the punching out of the cap and spout opening occur simultaneously.
21. A laminated carton packaging for beverages with a cap according to one of the claims 1 to 10, characterised in that the packaging body comprises carton/plastic laminate material.
22. The laminated carton packaging for beverages with a cap according to one of the claims 1 to 10, characterised in that the packaging comprises carton/plastic/Al laminate material.
23. The laminated carton packaging for beverages with a cap according to one of the claims 1 to 10, characterised in that the packaging body comprises a jacket of carton/plastic laminate material and a bottom, preferably out of plastic.
24. The laminated carton packaging for beverages with a cap according to one of the claims 1 to 10, characterised in that the packaging body comprises a jacket of

carton/plastic/Al laminated material and a bottom,
preferably made of plastic.